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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/564,256	04/18/2006	Peter Niebling	P/22-264	7713		
2352 OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403			EXAM	EXAMINER		
			HANNON, THOMAS R			
			ART UNIT	PAPER NUMBER		
			3682			
			MAIL DATE	DELIVERY MODE		
			06/09/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/564,256	NIEBLING ET AL.			
Examiner	Art Unit			
Thomas R. Hannon	3682			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  - after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status		
1)	Responsive to communication(s) fi	led on
2a)□	This action is FINAL.	2b)⊠ This action is non-final.

## Disposition of Claims

4)🛛	Claim(s)	1-17 is/are pending in	the application.	
	4a) Of the	above claim(s)	is/are withdrawn from	consideration.
5)□	Claim(s)	is/are allowed.		

- 6) Claim(s) 1-17 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 10 January 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    - Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* See the attached detailed Office action for a list of the certified copies not received.

		nf	

- 1) Notice of References Cited (PTO-892)
  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
  3) Information Disclosure Statement(s) (PTO/SE/D8) Paper No(s)/Mail Date 1/10/06
- Interview Summary (PTO-413)
- Paper No(s)/Mail Date. \_\_\_ 5 Notice of Informal Patent Application
  - 6) Other:

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The drawings are objected to because in Figure 3, three contact lines are labeled as L<sub>3</sub> and only one as L<sub>2</sub>; the second L<sub>3</sub> (moving from left to right) should be changed to L<sub>2</sub>.

Figures 1, 1a, and 1b should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 9 and 45.

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application for the reasons on the attached PTO-948.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5-8, and 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Coppins US 918,422.

Claims 1, 2, 5-8, and 13-17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hachfield.

Claims 1-3, 5-8, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Lunz, WO 93/17251. Note particularly Figure 2. The recitation "wheel" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 9, 10, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lunz WO 93/17251 as applied to claims 1 and 7 above, and further in view of Hofmann et al. US 5,490,732. Hofmann discloses a wheel bearing unit in which the balls, the outer ring and the inner ring are combined, the inner rings bering arranged concentrically on a flange body (1), the inner rings being held axially by a radially outwardly facing flanged rim (9) pressed axially against the inner ring; the two inner rings touching one another are inherently prestressed against one another. Hofmann further discloses the wheel bearing outer race having a radially extending flange with flange holes for mounting to a vehicle in a known manner. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Lunz and Hofmann to result in a wheel bearing having bearing raceways with multiple rows of balls. That is, the use of multiple rows of balls in the known environment of wheel bearings would have predictable results.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lunz WO 93/17251 as applied to claim 1 above, and further in view of Jakob WO 85/03749.

Jakob discloses a double row ball bearing having a diameter constriction between the pairs of rolling elements. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the pairs of rolling element raceways of Lunz to include a diameter restriction, because this is a known raceway design as shown and taught by Jakob.

Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lunz WO 93/17251.

It would have been obvious to one of ordinary skill in the art at the time the invention
was made to modify the bearing assembly of Lunz to have the pressure angle contact lines of the

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rows of balls in any desired configuration to optimize the loading of the bearing, including that of parallel lines or nonparallel contact lines. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Hannon whose telephone number is (571) 272-7104. The examiner can normally be reached on Monday-Thursday (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas R. Hannon/ Primary Examiner, Art Unit 3682